

USDA-NRCS LiDAR/Elevation Project Summary

Project Sponsor: USDA - NRCS

Project Area: Portions of Lauderdale County (FY09 Area 1 & Area 2)

Acquisition Dates: Spring 2010

Technical Summary:

Nominal Point Spacing – Area 1 - 0.7 meters, Area 2 - 0.5 meters

Vertical Accuracy – Area 1 – RMSEz 18.5cm, Area 2 – RMSEz 9.25cm (suitable for 1 foot contours)

Horizontal Accuracy - Will meet or exceed 0.6 m RMSE (Accuracy = 1.04 m at the 95% confidence level)

Vertical Datum: NAVD88, Geoid03, meters

Horizontal Datum: NAD83

Coordinate System: UTM Zone 16, meters

Tiling Scheme: 1000x1000 (National Grid) for point cloud

Products:

- One set of hydrologically flattened LiDAR data bare earth 1,000 x 1,000 meter tiles in ArcGRID format.
- LAS v1.2 classified point cloud and bare earth point files in tile format.
- LAS v1.2 raw unclassified flightline strips no greater than 2GB.
- Intensity Images as tiles in ArcGRID FLOAT format.
- Breaklines compiled as part of the hydrologic flattening process were provided as ESRI PolylineZ or PolygonZ shape files.
- FGDC compliant metadata by file in XML format.

